

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P594179

Luminaire Tested: **ISC-PA1C-827-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-PA1C-827-U-T4W-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3797 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G2

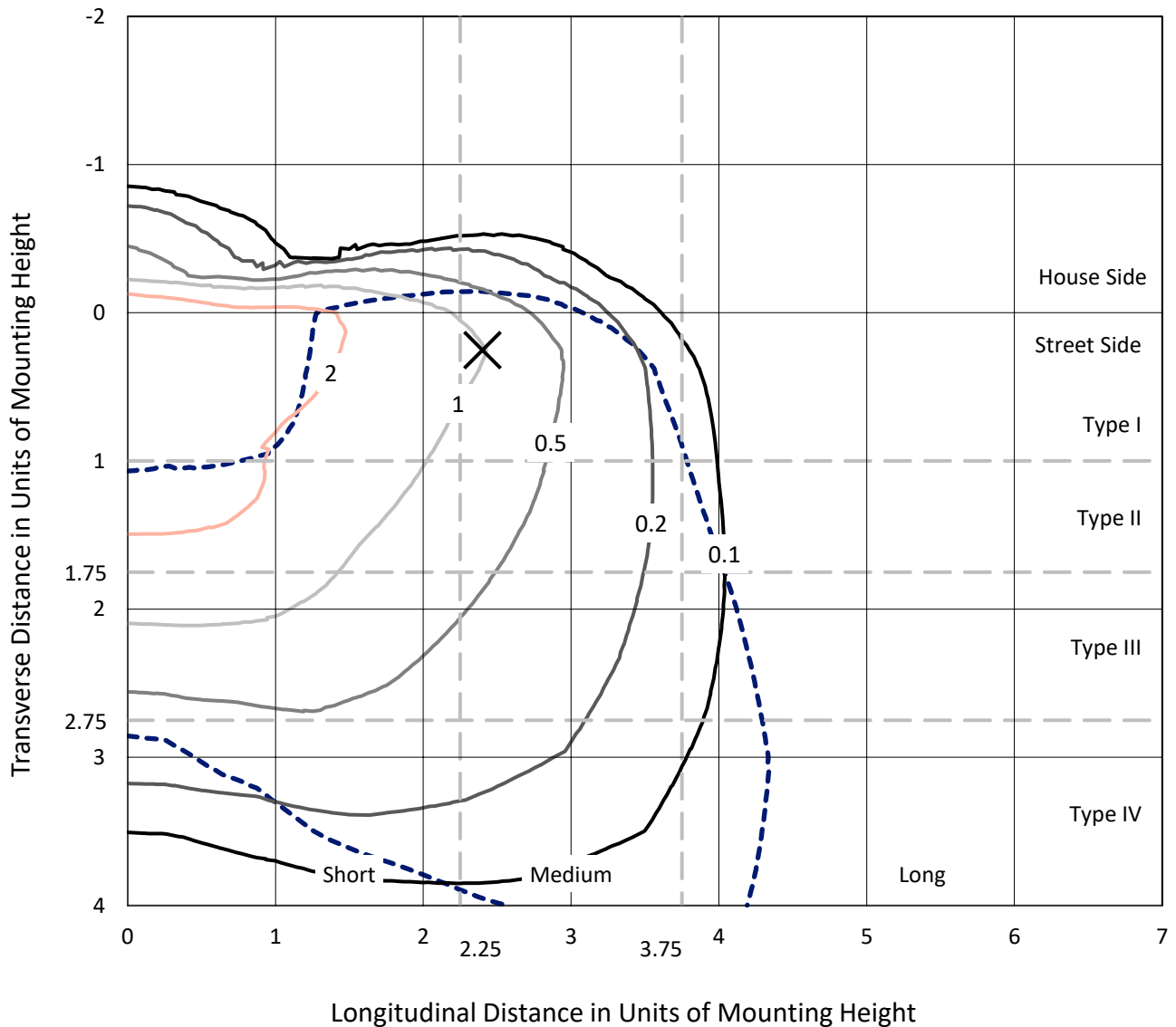
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

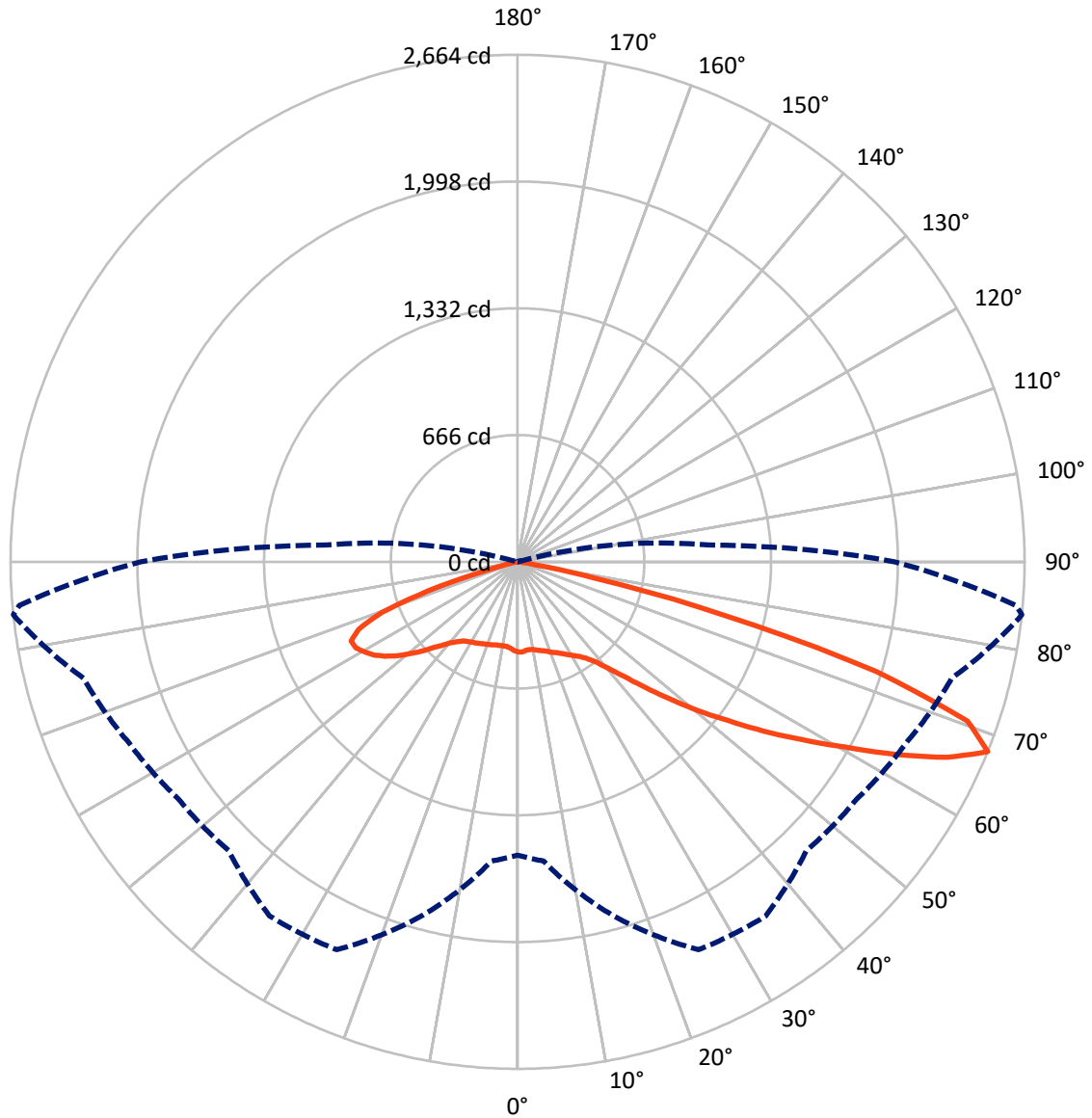
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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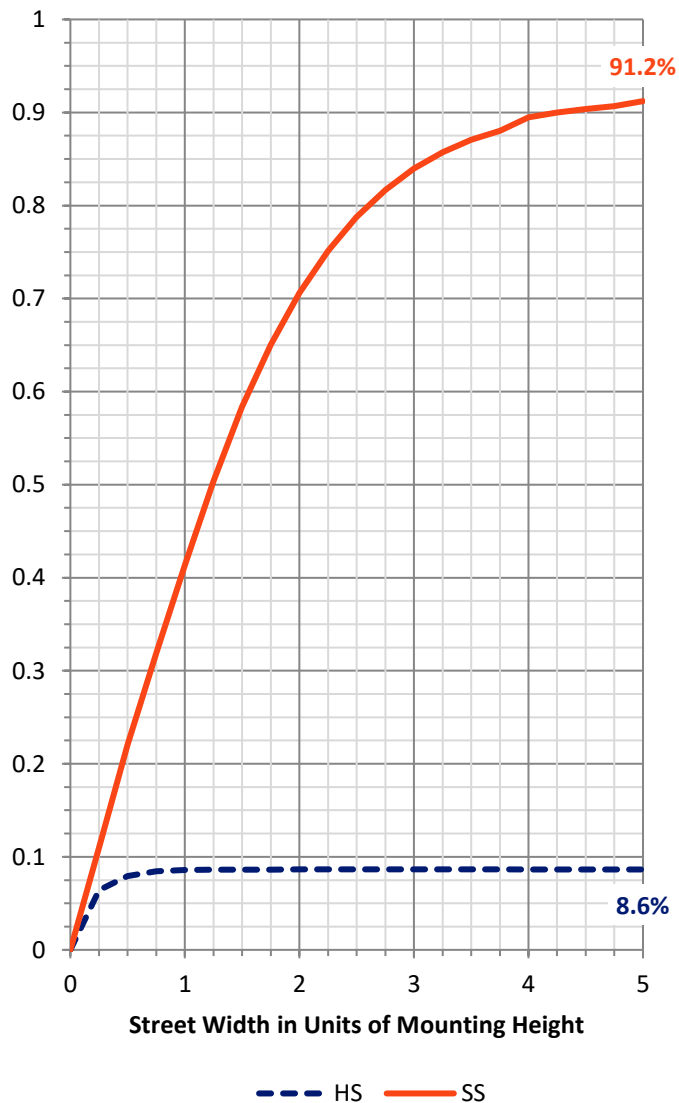
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	330.6	0.0	330.6
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	3466.4	0.0	3466.4
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	3797.0	0.0	3797.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.1
10°-20°	110.9	2.9
20°-30°	177.7	4.7
30°-40°	255.7	6.7
40°-50°	438.9	11.6
50°-60°	766.8	20.2
60°-70°	1098.1	28.9
70°-80°	825.4	21.7
80°-90°	81.0	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3797.0	100.0
0°-180°	3797.0	100.0

**Coefficient of Utilization**

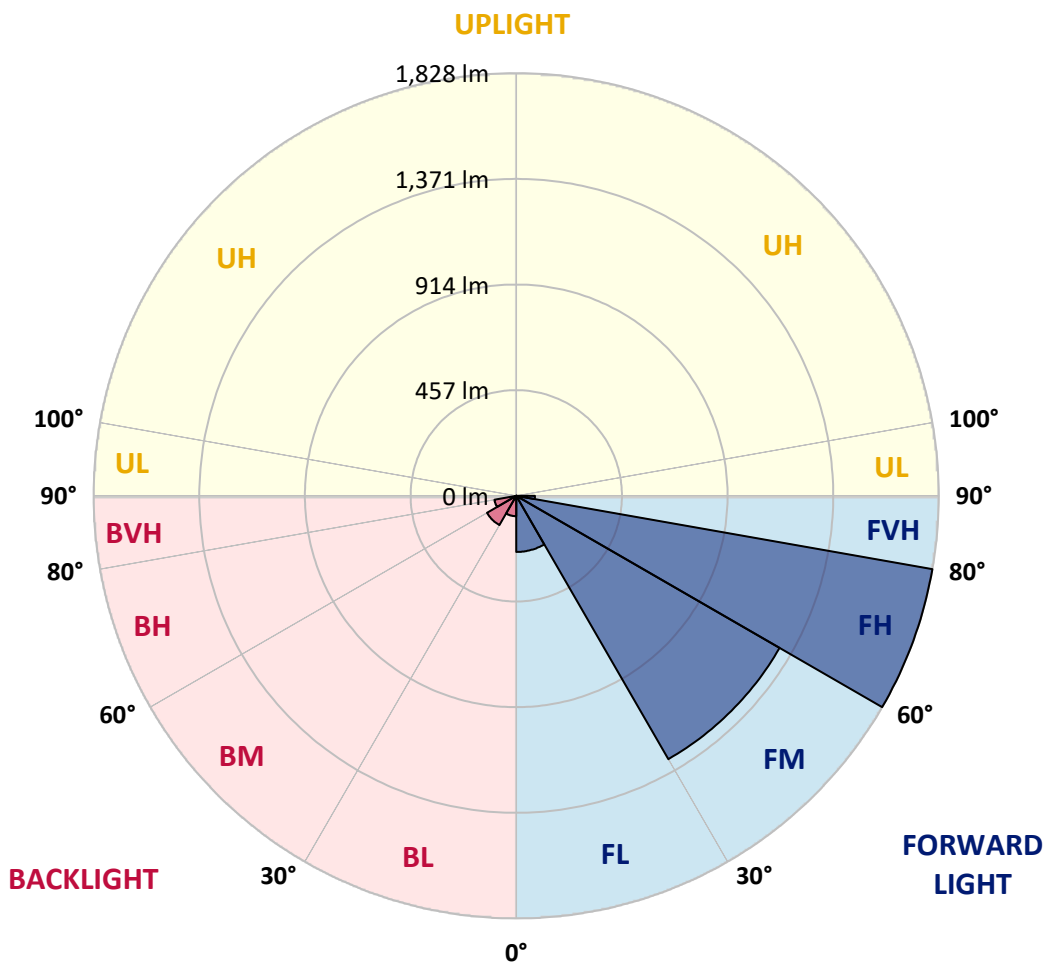


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.7	6.4			
FM (30°-60°)	1315.2	34.6			
FH (60°-80°)	1827.7	48.1			G2/5000
FVH (80°-90°)	80.8	2.1			G1/100
BL (0°-30°)	88.3	2.3	B0/110		
BM (30°-60°)	146.2	3.9	B0/220		
BH (60°-80°)	95.8	2.5	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	500.0	502.5	503.8	497.4	497.4	492.3	484.6	482.0	478.2	474.3	473.1
5°	525.6	529.5	528.2	520.5	516.6	506.4	496.1	485.9	475.6	466.7	466.7
7.5°	555.1	556.4	552.5	539.7	532.0	517.9	502.5	491.0	478.2	465.4	462.8
10°	580.7	579.5	574.3	561.5	547.4	529.5	512.8	500.0	484.6	469.2	467.9
12.5°	598.7	600.0	593.6	575.6	561.5	541.0	524.3	511.5	493.6	476.9	473.1
15°	614.1	617.9	610.2	592.3	571.8	553.8	541.0	524.3	503.8	484.6	482.0
17.5°	628.2	629.5	623.1	602.5	583.3	567.9	553.8	538.4	517.9	493.6	491.0
20°	635.9	639.7	635.9	610.2	592.3	580.7	569.2	553.8	530.8	507.7	505.1
22.5°	641.0	644.8	643.6	615.4	600.0	591.0	580.7	566.6	544.9	517.9	515.4
25°	643.6	646.1	648.7	620.5	607.7	603.8	594.9	582.0	561.5	533.3	530.8
27.5°	647.4	650.0	652.5	626.9	621.8	617.9	615.4	605.1	580.7	551.3	547.4
30°	653.8	657.7	660.2	638.4	638.4	642.3	642.3	628.2	601.3	570.5	567.9
32.5°	661.5	662.8	667.9	650.0	656.4	665.4	662.8	648.7	620.5	592.3	588.4
35°	682.0	682.0	691.0	667.9	675.6	683.3	685.9	675.6	650.0	621.8	620.5
37.5°	732.0	732.0	739.7	702.5	701.3	708.9	717.9	717.9	692.3	666.6	664.1
40°	844.8	844.8	844.8	758.9	744.8	753.8	767.9	775.6	753.8	735.9	735.9
42.5°	1033.3	1034.6	1015.3	862.8	802.5	817.9	833.3	850.0	838.4	825.6	823.0
45°	1228.2	1221.8	1219.2	1015.3	905.1	897.4	916.6	944.8	948.7	941.0	946.1
47.5°	1361.5	1367.9	1371.7	1205.1	1048.7	996.1	1014.1	1053.8	1076.9	1075.6	1083.3
50°	1491.0	1494.8	1498.7	1414.1	1238.4	1120.5	1132.0	1185.9	1217.9	1228.2	1233.3
52.5°	1603.8	1593.5	1610.2	1598.7	1439.7	1262.8	1262.8	1324.3	1382.0	1385.8	1384.6
55°	1637.1	1643.5	1693.5	1728.1	1646.1	1437.1	1411.5	1476.9	1538.4	1570.5	1570.5
57.5°	1711.5	1717.9	1778.1	1856.3	1796.1	1608.9	1570.5	1634.6	1701.2	1762.8	1771.7
60°	1808.9	1810.2	1874.3	1993.5	1910.2	1764.0	1732.0	1805.1	1871.7	1976.9	2006.3
62.5°	1861.5	1866.6	1955.1	2111.5	2053.8	1899.9	1892.2	1958.9	2044.8	2229.4	2256.3
65°	1780.7	1814.0	2006.3	2182.0	2170.4	2026.9	2053.8	2107.6	2206.3	2476.8	2502.5
67.5°	1541.0	1578.2	1921.7	2248.6	2271.7	2146.1	2174.3	2252.5	2361.5	2664.0	2628.1
70°	1419.2	1449.9	1716.6	2285.8	2356.3	2279.4	2292.2	2365.3	2397.4	2507.6	2469.1
72.5°	1075.6	1107.7	1452.5	2158.9	2429.4	2419.1	2387.1	2326.8	2137.1	1973.0	1879.4
75°	475.6	512.8	966.6	1687.1	2248.6	2498.6	2329.4	1992.2	1534.6	1120.5	1038.4
77.5°	210.2	232.0	374.3	937.1	1689.7	2162.7	1842.2	1328.2	770.5	416.7	387.2
80°	67.9	70.5	117.9	328.2	864.1	1432.0	1128.2	638.4	237.2	97.4	91.0
82.5°	26.9	29.5	56.4	138.5	357.7	569.2	553.8	230.8	69.2	25.6	25.6
85°	7.7	9.0	28.2	73.1	126.9	160.3	196.1	76.9	37.2	7.7	7.7
87.5°	2.6	2.6	10.3	23.1	24.4	16.7	37.2	29.5	23.1	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	470.5	467.9	461.5	456.4	453.8	450.0	444.9	442.3	442.3	441.0	437.2
5°	461.5	457.7	446.1	438.4	432.0	417.9	407.7	394.9	382.0	378.2	382.0
7.5°	457.7	450.0	434.6	419.2	392.3	355.1	330.8	303.8	294.9	283.3	284.6
10°	459.0	450.0	428.2	393.6	341.0	285.9	247.4	211.5	193.6	184.6	185.9
12.5°	462.8	452.5	421.8	359.0	283.3	216.7	157.7	129.5	124.4	124.4	124.4
15°	470.5	455.1	411.5	317.9	221.8	143.6	111.5	109.0	112.8	116.7	117.9
17.5°	478.2	462.8	396.1	275.6	161.5	107.7	103.8	103.8	107.7	111.5	112.8
20°	487.2	470.5	374.3	230.8	115.4	101.3	100.0	98.7	101.3	105.1	106.4
22.5°	501.3	478.2	348.7	178.2	100.0	97.4	94.9	93.6	94.9	98.7	100.0
25°	514.1	488.4	321.8	132.0	93.6	91.0	89.7	88.5	88.5	91.0	92.3
27.5°	529.5	500.0	292.3	98.7	85.9	84.6	83.3	82.0	80.8	83.3	84.6
30°	548.7	510.2	260.2	83.3	78.2	76.9	75.6	74.4	73.1	74.4	75.6
32.5°	573.1	524.3	223.1	75.6	71.8	67.9	66.7	66.7	65.4	65.4	66.7
35°	605.1	539.7	183.3	70.5	65.4	61.5	57.7	56.4	56.4	56.4	57.7
37.5°	652.5	567.9	144.9	65.4	60.3	53.8	50.0	46.2	46.2	46.2	46.2
40°	717.9	598.7	112.8	61.5	56.4	47.4	42.3	37.2	34.6	33.3	34.6
42.5°	819.2	644.8	87.2	56.4	53.8	42.3	34.6	28.2	23.1	21.8	23.1
45°	930.7	694.8	69.2	52.6	48.7	35.9	26.9	19.2	14.1	12.8	14.1
47.5°	1071.8	757.7	59.0	47.4	42.3	29.5	19.2	10.3	6.4	7.7	7.7
50°	1207.7	819.2	53.8	43.6	37.2	24.4	11.5	5.1	2.6	3.8	3.8
52.5°	1357.6	884.6	50.0	38.5	32.1	17.9	6.4	1.3	0.0	1.3	1.3
55°	1508.9	943.6	46.2	34.6	25.6	12.8	2.6	0.0	0.0	0.0	1.3
57.5°	1673.0	993.6	42.3	29.5	19.2	7.7	1.3	0.0	0.0	0.0	0.0
60°	1810.2	1032.0	38.5	25.6	12.8	3.8	0.0	0.0	0.0	0.0	0.0
62.5°	1935.8	1066.6	29.5	19.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0
65°	2019.2	1074.3	20.5	12.8	5.1	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	1982.0	1007.7	12.8	9.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0
70°	1742.2	846.1	9.0	5.1	1.3	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1219.2	546.1	7.7	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	643.6	197.4	5.1	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	228.2	43.6	2.6	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0
80°	50.0	9.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)